ZODROW, K.

PAWELKIEWICZ, Jerzy; ZODROW, Karol

Synthesis of cobalamines by Corynebacterium diphtheriae. Acta microb. polon. 6 no.3:219-231 1957.

1. Z Katedry Biochemii i z Katedry Mikrobiologii Rolnej WSR w Poznaniu.
(CORYNEBACTERIUM DIPHTHERIAE, metabolism,
vitamin B12 synthesis (Pol))
(VITAMIN B12, metabolism,
Corynebacterium diphtheriae, synthesis (Pol))

ZODROW K.

DUDI, J.; PEDZIWILK, Z.; ZODROW, K.

Studies on the appearance of vitamin B12 in leguminous plants. Acta microb. polon. 6 no.3:233-236 1957.

1. Z Katedry Mikrobiologii Rolnej Wyzszej Szkoly Rolniczej w Poznaniu.

(VITAMIN B12, metabolism,
leguminous plants (Pol))
(PLANTS, metabolism,
leguminous, vitamin B12 (Pol))

POLAND / Microbiology. General Microbiology. Physiology and Biochemistry. F-1

Abs Jour: Ref Zhur-Biol., No 16, 1958, 71945.

Author : Pawelkiewicz, J., Zodrow, K.
Inst : Not given.
Title : Investigation of the Biosynthesis of Cobalamines. 2. Mechanism of the Formation of Cobalamines by Corynebacterium Diphtheriae.

Orig Pub: Acta biochem. polon., 1957, 4, No 3, 203-210.

Abstract: Results are presented of the quantitative determination of four cobalamines divided by iontophoresis and formed by C. diphtheriae. The first products of biosynthesis are non-nucleotide, iontophoretically neutral cobalamines which represent fraction I. All cobalamines of

Card 1/2

20DRCW, K.

Biochemistry

Clarified

(6)

1528* Spectrophotometric Method of Determining Vitamin B_{12} in Cultures of Microorganisms. J. Jadzki, J. Lipniewicz, St. Sławicki, and H. Zajicek. Przemysł Chemiczny, v. 32, no. 10, Oct 1953, p. 509-511.

Modification of Rudkin and Taylor method of determining vitamin B_{12} in microbiological material has been worked out. Graphs, table, 7 ref.

ZODROW, K.

Analytical Abst.
May 1954
Biochemistry

1110. Spectrophotometric method for the determination of vitamin B_{12} in microbiological cultures. J. Janicki, J. Pawelkiewicz, S. Stavicki and K. Zodrow (*Przem. Chem.*, 1953, 32 [10], 609–611).—According to this method which is a modification of Rudkin and Taylor's procedure (*Brit. Abs.* C 1952, 502), the dil. vitamin soln., obtained by extraction of the microbiological culture with benzyl alcohol, is washed with water and extracted from this with acetone after saturation with $(NH_4)_2SO_4$. The vitamin B_{12} is obtained in conc. form by evaporation of the acetone under reduced pressure. The vitamin content is determined by comparing the extinction at 588 mμ of the dicyanato complex with that of a standard vitamin soln. The extinction coeff. established was $E^{1\%}_{1\,cm} = 58.2$. The deviation from the Rudkin - Taylor extinction coeff., $E^{1\%}_{1\,cm} = 56$ at 582 mμ, is attributed to use of different optical systems. The spectrophotometric method (reproducibility : 10 per cent.) can be applied to all microbiological preparations. Fair agreement was established with results of microbiological tests with *Lactobacillus leichmannii*.

H. BURSTIN

ZODROW, Karol; ZODROW, Halina

Studies on the effect of 5,6-dimethylbenzimidazole on the biosynthesis of corrinoids by propionibacteria. Acta microbiol. polon. 12 no.1: 61-68 '63.

1. From the Department of Agricultural Microbiology of the Academy of Agriculture and from the Department of Food Chemistry of the Medical Academy, Poznan, Poland.
(PROPIONIBACTERIUM) (IMIDAZOLES) (VITAMIN B 12)

BERGMAN, S.I.; ZODUN, I.M.

From the practice of conducting clinical pathoanatomical conferences. Vrach. delo no.6:114-117 Je'63. (MIRA 16:9)

1. Makachevskaya gorodskaya bol'nitsa.
(ANATOMY, PATHOLOGICAL)

ZODYEV, V.

Fliurografiia Kak Metod Vyiavleniia Serdechnososudistykh Zabolevanii Pri Gruppovykh Issledovaniiakh (Fluography as a Method for Determining Cardiac-Vascular Disorders) (Paper Edition)

86 p. 40¢

SO: Four Continent Book List, April 1954

HUNGARY / Physical Chemistry. Crystals. B-5

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 26276.

Author : Zoellei, M.
Inst : Not given.
Title : A Chemical Sensitization Procedure for Sintered CdS Layers.

Orig Pub: Acta Phys et Chem Szeged, 3, No 1-4, 21-26 (1957) (in German).

Abstract: A procedure for the sensitization of CdS layers by treatment with halogens is described. An aqueous suspension or colloidal dispersion of CdS to which a small amount of NH_4Cl, NH_4Br, or NH_4I has been added is deposited on a glass plate. After drying at 60-80° the specimens are subjected to heat treatment at 500-600° during which, in the opinion

Card 1/2

HUNGARY / Physical Chemistry. Crystals. B-5

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 26276.

Abstract: of the author, the halogen enters the CdS lattice and sensitizes the CdS. The photosensitivity of the Cl-containing CdS layers is 2-4 times greater than that of Br- or I-treated layers. The CdS coatings prepared by the above method possess great mechanical strength. -- M. Shapochnik.

Card 2/2

HUNGARY / Physical Chemistry. Crystals. B-5

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 26276.

Author : Zoellei, M.
Inst : Not given.
Title : A Chemical Sensitization Procedure for Sintered CdS Layers.

Orig Pub: Acta Phys et Chem Szeged, 3, No 1-4, 21-26 (1957) (in German).

Abstract: A procedure for the sensitization of CdS layers by treatment with halogens is described. An aqueous suspension or colloidal dispersion of CdS to which a small amount of NH_4Cl, NH_4Br, or NH_4I has been added is deposited on a glass plate. After drying at 60-80° the specimens are subjected to heat treatment at 500-600° during which, in the opinion

Card 1/2

HUNGARY/Chemical Technology. Chemical Products and Their Applications. Pharmaceuticals. Vitamins. Antibiotics. H

Abs Jour: Ref Zhur-Khim., No 8, 1959, 28571.

Author : Zoellnerne, I. E., and Vastagh, G.
Inst :
Title : The Photometric Determination of Sulfamides.

Orig Pub: Acta Pharmac Hung, 27, No 3, 108-112 (1957) (in Hungarian with a German summary)

Abstract: The amount of solution corresponding to 0.05-0.3 mg of the substance to be determined is calculated and the sample is diazotized in the usual way, the excess HNO_2 is removed with urea, thymol is added in alkaline medium, and the very stable orange-yellow solutions obtained, the color of which is not sensitive to small

Card : 1/3

2/3

HUNGARY/Chemical Technology. Chemical Products and Their Applications. Pharmaceuticals. Vitamins. Antibiotics. II

Abs Jour: Ref zhur-khim., No 8, 1959, 28571.

changes in alkalinity, are analyzed colorimetrically. In addition to the determination of pure substances, the method can also be used in the analysis of the above-mentioned compounds in various preparations. Thus, sulfanilamide, sulfaguanidine, sulfamidedimethylpyrimidine, as well as the antidiabetic sulfonylbutylcarbamide have been determined and calibration curves for these compounds are included. The method can be applied to the analysis of sulfonylbutylcarbamide which exhibits antidiabetic action but cannot be used in the determination of sulfathiocarbamide because the thiourea residue in the latter

Card : 2/3

HUNGARY/Chemical Technology. Chemical Products and Their Applications. Pharmaceuticals. Vitamins. Antibiotics. H

Abs Jour: Ref Zhur-Khim., No 8, 1959, 28571.

interferes with the diazotization. -- Yu. Vendel'shteyn.

Card : 3/3

214

HUNGARY/Chemical Technology. Chemical Products and Their Applications. Pharmaceuticals. Vitamins. Antibiotics. H

Abs Jour: Ref Zhur-Khim., No 8, 1959, 28571.

Author : Zoellnerne, I. E. and Vastagh, G.
Inst :
Title : The Photometric Determination of Sulfanides.

Orig Pub: Acta Pharmac Hung, 27, No 3, 108-112 (1957) (in Hungarian with a German summary)

Abstract: The amount of solution corresponding to 0.05-0.3 mg of the substance to be determined is calculated and the sample is diazotized in the usual way, the excess HNO_2 is removed with urea, thymol is added in alkaline medium, and the very stable orange-yellow solutions obtained, the color of which is not sensitive to small

Card : 1/3

2/3

HUNGARY/Chemical Technology. Chemical Products and Their Applications. Pharmaceuticals. Vitamins. Antibiotics. II

Abs Jour: Ref zhur-khim., No 8, 1959, 28571.

changes in alkalinity, are analyzed colorimetrically. In addition to the determination of pure substances, the method can also be used in the analysis of the above-mentioned compounds in various preparations. Thus, sulfanilamide, sulfaguanidine, sulfamidedimethylpyrimidine, as well as the antidiabetic sulfonylbutylcarbamide have been determined and calibration curves for these compounds are included. The method can be applied to the analysis of sulfonylbutylcarbamide which exhibits antidiabetic action but cannot be used in the determination of sulfathiocarbamide because the thiourea residue in the latter

Card : 2/3

From Annotated Bibliography
on the Use of Organolithium
Compounds in Organic Synthesis.
January, 1948

Gilman, Henry, Zoellner, E. A., Selby, W. M., and Bradley, Charlotte
The yields of some organomagnesium and organolithium compounds.
Recueil des travaux chimiques
54, 584-94 (1935)

Lithium alkyls were prepared in ether from the alkyl chloride in the following yields: methyllithium, 69%; n-propyllithium, 87.9%; isopropyllithium, 20%; and sec-butyllithium, [illegible]. 2-Iodothiophene in ether gave with lithium an 8.4% yield of 2-thienyllithium. In some experiments where the iodide did not react with lithium, it reacted readily with magnesium. 2-Thienyllithium can be prepared by metalation of thiophene. 2,5-Dimethyl-3-furyllithium was prepared from the corresponding iodide in ether. Acid titration indicated a yield of 69.2%, but no acid was obtained from carbonation of the product and the high titration value may be due to scission of the furan ring. Yields obtained in the preparation of an extensive series of Grignard reagents are recorded.

KIM TSE PENG; ZOELLNER, W.

Pion production at low energies. Dubna, Ob"edinennyi in-t iadernykh issl. 1962. 12 p.
(No subject heading)

ZOENINA, K.S.

Excretion of dysentery bacteriophage by mouse kidneys in experimental dysentery infection. Biul. eksp. biol. i med. 56 no.9:84-88 S '63. (MIRA 17:10)

1. Iz Instituta epidemiologii i gigiyeny (dir. - dotsent N.A. Nemshilova, konsul'tant - chlen-korrespondent AMN SSSR A.D. Ado), Kazan'. Predstavlena deystvitel'nym chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym.

ZOEV, S.

Results from resettlement of the red deer in the District of Plovdiv.

p. 169 (Gorsko Stopanstvo) Vol. 13, Nol 4, April 1957. Sofiia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 1, Jan. 1958

BA

Basic electrodes for welding non-alloy steels. G. Zoethout (*Lasschaich*, 1951, 17, 97—101, 113—117, 129—139; *J. Frem. Soud. Ind.*, 1952, 170, 73).—The development of coated electrodes is reviewed and the reasons for using a basic electrode are explained. The gas contents and structures of weld metal from Ferrimanganite, gas-shielded and basic electrodes are compared, and the mechanical properties of basic welding rods discussed. R. B. CLARKE.

R

COUNTRY : CZECHOSLOVAKIA

CATEGORY : Diseases of Farm Animals. Diseases Caused by Viruses and Rickettsiae

ABS. JOUR. : RZhBiol., No.13, 1958, No. 59762

AUTHOR : Zofijevsky, V.

INST. : -

TITLE : An Instructive Case of Unsuccessful Vaccination and Treatment of Swine with Antiplague Serum in Poland

ORIG. PUB. : Veterinarstvi, 1957, 7, No 71, 96-197

ABSTRACT : No abstract

Card: 1/1

R - 26

ZOFKA, J.

STICH, Z., MAREK, A., PERNICKY, J., HAZUKOVA, J., WALLENFELS, V., ZOFKA, J., STRITESKY, J., MALEK, I.

Socialization of medicine in Czechoslovakia. Zdravot. rev. 25:6, June 50. p. 165-6

CLML 19, 5, Nov., 1950

ZOFKA, J.

Control of fulfilling the plan and statistical control of planning in the field of health services. Cesk. nemoc. 18 no.6:124-130 Aug 1950. (CIML 23:2)

1. Prague.

ZOFKA, J.

Indications for administration of penicillin; instruction. Cesk. nemoc. 18 no.7-9:163-166 Sept-Nov 1950. (CLML 23:2)

1. Circular of the Ministry of Health.

ZOFKA, J.

Public health plant in 1950, its systematics, area and main objects.
Cesk. nemoc. 18 no.2:37-41. Feb 51. (CIML 20:8)

ZOFKA, J.

Medical legislation (21 December, 1950, ch. 170 Sb.) and its principal aspects. Cesk. nemoc. 19 no.1-2:13-23 Jan-Feb 1951. (CIML 23:2)

ZOFKA, Jiri, JUDr.

Method of public health planning. Cesk. zdravot. 4 no.9: 524-527 Sept 56.

1. Ministerstvo zdravotnictvi-planovaci odbor.
(PUBLIC HEALTH,
in Czech., planning (Cz))

ZOFKA, Jiri, JUDr.

Standards and basic principles of public health planning.
Cesk. zdravot. 5 no.4:221-231 Apr 57.

1. Ministerstvo zdravotnictyi, planovaci odbor.
(PUBLIC HEALTH
planning, basic principles (Cz))

ZOFKA, J.

Standards, a basic instrument in planning public health.

P. 221 (Ministry of Health, Research Institute for Organization of Health Service) Vol. 5, No. 4, Apr. 1957.

SO: Monthly Index of East European Acessions (AEEI) Vol. 6, No. 11 November 1957.

Zofka, Jiri

ZOFKA, Jiri, MUDr.

Increased importance of long-term and 5-year plans and preparations for comprehensive review of the concepts of public health up to the year 1957. Cesk. zdravot. 6 no.2:85-89 Mar 58.

1. Ministerstvo zdravotnictvi - planovaci odbor.
(PUBLIC HEALTH,
in Czech., importance of long-term planning (Cz))

ZOFKA, Jiri, MUDr.

Preparing of the outlines of the Third Five-Year Plan of the Development of the Health Services in Czechoslovakia. Cesk. zdravot. 7 no.2:65-73 Mar 59.

1. Ministerstvo zdravotnictvi--Planovaci odbor.
(PUBLIC HEALTH
health serv. develop. in Czech (Cz))

ZOFKA, J., dr.

Apropos of the uneven distribution of cadres of health workers. Use of careful planning for the gradual improvement of the present condition. Cesk. zdrav. 12 no.7/8:391-396 Ag '64.

1. Planovaci odbor ministerstva zdravotnictvi.

ZOG, I.G.

Thorough utilization of Gomphocarpus fruticosus (L.) R.Br.
Bot.zhur. 43 no.11:1620-1627 N '58. (MIRA 11:11)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.
(Gomphocarpus)

GODLEWSKI, J.;ZOGALA, E.

Effect of isonicotinic acid hydrazide on the hemopoietic system in children. Polski tygod. lek. 8 no.17:636-638 27 Apr 1953. (CLML 24:5)

1. Of Wrocław Municipal Pediatric Hospital (Head-Surgeon--Josef Godlewski, M.D.).

GODLEWSKI, J.;ZOGALA, E.

[redacted]

Hematologic changes in lipoid nephrosis in children. Polski tygod. lek. 8 no.22:780-783 1 June 1953. (CIML 25:1)

1. Of Wroclaw Municipal Pediatric Hospital (Head--Jozef Godlewski, M.D.).

GODLEWSKI, Jozef; ZOGALA, Emilia

Biopsy of the bone marrow in dysthrepsy in infants. Pediat. polska 30 no.6:543-546 Je '55.

1. Z Miejskiego Specj. Szpit. Dziecicego im. J. Korczaka we Wroclawiu. Ordynator: dr med. J. Godlweski. Wroclaw, Berenta 37.

(INFANT NUTRITION DISORDERS,
athrepsy, bone marrow biopsy in)
(BONE MARROW, in various diseases,
athrepsy, biopsy)
(BIOPSY,
bone marrow, in athrepsy)

GODLWESKI, Jozef; ZOGALA, Emilia; KORNOBIS, Krystyna

Bone marrow in anemia of infectious origin in infants. Polski tygod.lek. 10 no.33:1084-1087 15 Aug '55.

1. Z Miejskiego Specjalistycznego Szpitala Dzieciecego im. J. Korczaka we Wroclawiu; ordynator: dr med. J. Godlewski. Wroclaw, Miejski Szpital Dzieciecy im. J. Korczaka.
(ANEMIA, in infant and child,
bone marrow in anemias of infect.origin)
(BONE MARROW, in various diseases,
anemias of infect. origin in inf.)

GODLEWSKI, Jozef; ZOGALA, Emilia; STRACZEK, Irena

Modifications of the hemopoietic system in tuberculous encephalitis and in tuberculous meningitis in children. Gruzlica 22 no.4:255-265 Ap '54.

1. Z Miejskiego Szpitala Dziecieceego we Wroclawiu. Ordynator: dr med. J.Godlewski.

(TUBERCULOSIS, MENINGEAL, in infant and child, *physiol., hemopoietic system)
(TUBERCULOSIS, *brain, in child., hemopoietic changes)
(BRAIN, DISEASES, *tuberc. in child., hemopoietic changes)
(HEMOPOETIC SYSTEM, in various diseases, *tuberc., meningeal & encephalic, in child.,)

ZOGALA, JAN

Distr: 4E3d

Reactivation of sulfidic arsenic-containing catalysts for high-pressure hydrogenation of liquid fuels. Jan Zogala and František Cír. Czech. 91,408, Aug. 15, 1959. Extg. deactivated WS₂-NiS catalysts contg. S 0.7, As 4.4, and C 3.7% with steam, drying the material above 95° in a nonoxidizing atm., grinding, pressing, and exposing the tablets to gases contg. CO_2 12.5, H_2S 12.5, and H 75% for 10 hrs. at 450° gives a product with S 8.6, As 2.4, and C 3.5% and comparable in activity to fresh catalyst.

L. J. Urbánek

ZOGOREVSKIY, V.A. --

"A Study of the Dual Reaction Capacity of the Metal Derivatives of Keto-Enol and Related Systems." Cand Chem Sci, Moscow Order of Lenin State U imeni M.V. Lomonosov, 3 Nov 54. (VM, 21 Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

S

21

RAPID DETERMINATION OF VANADIUM IN STEEL WITHOUT DAMAGE TO THE SPECIMEN. L. P. Adamovich and A. Ya. Zogorul'ko. (Zavodskaya Laboratoriya, 1940, No. 4, pp. 466-468). (in Russian).

In this method of making vanadium determinations the test solution is obtained by placing a few drops of a mixture of sulphuric and nitric acids on a cleaned and degreased portion of the surface of the specimen and transferring the solution obtained after 1-2 min. into a very small crucible. The solution is then boiled with nitric acid, treated with a slight excess of potassium permanganate solution, the excess of the later being destroyed by adding potassium nitrite, and a small amount of urea is finally added. A drop of this solution is then placed on filter paper which has been soaked in a solution of aniline hydrochloride and dried. The appearance of a blue spot indicates the presence of vanadium in the specimen. The use of phenyl-anthranilic acid paper gives better sensitivity, but the use of nitric acid when preparing the test solution must then be avoided.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZOGOT, TS.I.; TSERETELI, TS.I.

Radioactivity of rocks and waters in the Akhaltsikhe brown coal deposit. Trudy Inst. geofiz. AN Gruz. SSR 19:193-195 '60. (MIRA 14:9)

(Akhaltsikhe region--Radioactive prospecting)

ZOGOV, M.

Advantages of asbestos cement for joints of cast water pipes.

p. 48
Vol. 5, no. 1/2, Mar. 1955
VODNI HOSPODARSTVI
Praha

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 3
March 1956

L 2449-66 EWT(m)/EPF(c)/EWP(t)/EWP(z)/EWP(b) IJP(c) JD/WW/JG/WB

[illegible]

[illegible]

[illegible]

[illegible]

ABSTRACT: By [illegible] [illegible], 1961, 42

TOPIC TAGS: [illegible] containing alloy, [illegible]m containing alloy, [illegible] containing alloy, [illegible] manganese containing alloy

[illegible] which, for increased [illegible] [illegible]m, [illegible]

[illegible] metallurgy [illegible] Metallurgy

Card 1

L 2449-66

TODOROVIC, Vladimir, major dr.; ZOGOVIC, Branko, dr.

Personal experiences with refrigeration anesthesia. Vojs. san. pregl., Beogr. 11 no.11-12:565-570 Nov-Dec 54.

1. Hirurska klinika VMA, B. IV. hiruska klinika VMS.
(ANESTHESIA, REGIONAL
refrigeration, indic.)

L 1166-66

ACCESSION NR: AP5025450

TU/0015/64/000/010/0339/0341

AUTHOR: Bukurov, Stanislav (Professor, Doctor); Zogovic, Branko (Chief doctor)

[illegible] Romanian Surgeons' Association

[illegible]

TOPIC TAGS: surgery, medical conference

ABSTRACT: Very comprehensive report on this 4-day meeting held in May 1964, listing over a dozen papers presented by Romanian, Soviet, Polish, Italian, French and German surgeons on [illegible]

[illegible]

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: LS

NR REF SOV: 000 OTHER: 000 JPRS

Card 1/1

STEPANYAN, L.A., red.; ARUTYUNYAN, A.B., red.; BAGDASARYAN, A.B., prof., doktor geogr. nauk, glav. nauchnyy red.; DAVTYAN, G.S., red.; MARTIROSYAN, G.M., red.; MARUKHYAN, A.O., red.; NKRTCHYAN, S.S., red.; URUSOV, V.V., red.; SHAKHBAZYAN, M.S., red.; ALLAKHVERDYAN, G.O., kand. ekonom. nauk zam glav. nauchnogo red.; ARUTYUNYAN, N.Kh., akademik, red.; VALESYAN, L.A., kand. geogr. nauk, red.; DUL'YAN, S.M., kand. geogr. nauk, red.; YEREMYAN, S.T., red.; ZOGRABYAN, L.N., kand. geogr. nauk, red.; KOCHARYAN, G.A., prof., red.; POGOSYAN, Kh.P., prof., doktor geogr. nauk, red.; RUTKOVSKAYA, M.S., starshiy red.; SAVELO, A.F., tekhn. red.; YAROSHEVICH, K.Ye., tekhn. red.

[Atlas of the Armenian Soviet Socialist Republic] Atlas Armianskoi Sovetskoi Sotsialisticheskoi Respubliki. Erevan, Akad. nauk Armianskoi SSR; glav. upr. geodez. i kartografii MG i ON SSSR, 1961. 111 p. (MIRA 15:2)

1. Minskaya kartograficheskaya fabrika Glavnogo upravleniya geodezii i kartografii Ministerstva geologii i okhrany nedr SSSR (for Urusov). 2. Akademiya nauk Armyanskoy SSR (for Arutyunyan). 3. Chlen-korrespondent AN Armyanskoy SSR (for Yeremyan).
(Armenia--Maps)

MKRTCHYAN, S.S., akademik, glav. red.; VARDANYANTS, L.A., red.; GABRIYELYAN, A.A., red.; MAGAK'YAN, I.G., akademik, red.; PAFFENGOL'TS, K.N., akademik, red.; DUNITRASHKO, N.V., doktor geogr. nauk, otv. red.; BAGDASARYAN, A.G., doktor geogr. nauk, red.; BAL'YAN, S.P., kand. geogr. nauk, red.; ZOGRABYAN, L.N., kand. geogr. naukKHACHATRYAN, E.A., red. izd-va; KAPLANYAN, M.A., tekhn. red.

[Geology of the Armenian S.S.R.]Geologiia Armainskoi SSR. Glav.red.S.S.Mkrtchian (glav.red.) i dr. Erevan, Izd-vo AN Armianskoi SSR. Vol.1. [Geomorphology]Geomorfologiia. 1962. 430 p. map. (MIRA 15:10)

1. Akademiya nauk Armyanskoy SSR, Erivan. Institut geologicheskikh nauk. 2. Akademiya nauk Armyanskoy SSR (for Mkrtchyan, Magak'yan, Paffengol'ts). 3. Chlen-korrespondent Akademii nauk Armyanskoy SSR (for Vardanyants, Gabriyelyan).
(Armenia--Geomorphology)

ZOGRABYAN, S.A.; MKRTCHYAN, Sv.S.; SAGATELYAN, E.A.

New data on the location of red barite in the Akhtala complex metal deposit. Dokl. AN Arm. SSR 39 no.5:283-286 '64 (MIRA 18:2)

1. Institut geologicheskikh nauk AN ArmSSR. Submitted April 2, 1964.

ZOGRABYAN, S.A.

Structural factors in the localization of mineralization in the Akhtala complex ore deposit. Dokl. AN Arm. SSR 40 no.1:49-52 '65. (MIRA 18:7)

1. Institut geologicheskikh nauk AN ArmSSR. Submitted May 26, 1964.

ZOGRABYAN, S.A.; MKRTCHYAN, Sv.S.

Age of disjunctive dislocations in the Akhtala deposit. Izv. AN Arm. SSR. Nauki o zem. 17 no.3/4:21-28 '64. (MIRA 17:11)

1. Institut geologicheskikh nauk AN Armyanskoy SSR.

ZOGRABYAN, A. A.

Barite mineralization in the Akhtala complex metal deposit. Izv. AN Arm. SSR 43 no.2:105-111 '65. (MIRA 18:11)

1. Submitted January 4, 1965.

ZOGRABYAN, S. G.

24405 ZOGRABYAN, S. G. K plastike perifericheskikh nervov. Sbornik nauch. Trudov (Yerevansk. Nauch.-issled. IN-T ortopedii i vosstanovit. Khirurgii), 1, 1949, S. 28-31.

SO: Letopis, No. 32, 1949.

ZOGRABYAN, S. G.

24406 ZOGRABYAN, S. G. Sindrom "Zhuzhchaniya" pri travmaticheskikh porazheniyakh cherepa. Sbornik nauch. Trudov (Yervanch. nauch.-issled. IN-T ortopedii i vosstanovit. Khirurgii), 1, 1949, S. 32-36.

SO: Letopis, No. 32, 1949.

ZOGRABYAN, S.G.

Nervous System

Ideas regarding "nervism" in Russian medicine. Arkhiv pat., 14, No. 1, 1952. Kand. Med. Nauk.

SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

ZOGRABYAN, S.G.; SHEVTSOV, D.G., redaktor; KIRSANOVA, N.A., tekhnicheskiy redaktor.

[Sessions, conferences, and meetings of the Academy of Medical Sciences of the U.S.S.R. dedicated to contemporary problems of Soviet medicine, 1950-1952] Sessii, konferentsii i zasedaniia Akademii meditsinskikh nauk SSSR, posviashchennye tvorcheskomu obsuzhdeniiu aktual'nykh problem sovetskoi meditsiny, 1950-1952 gg. Moskva, Izd-vo Akademii meditsinskikh nauk SSSR, 1953. 151 p. (MLRA 7:11)

1. Akademiya meditsinskikh nauk SSSR, Moscow.
(Academy of Medical Sciences of the U.S.S.R.) (Medicine)

ZOGRABYAN, S.G.

"Surgical treatment for sequelae of gunshot wounds in the lateral ventricles of the brain." T.G.Khandrikova, Reviewed by S.G.Zograbian. Vop. neirokhir. 18 no.3:61-63 My-Je '54. (MLRA 7:8)
(BRAIN--SURGERY)

ZOGRABYAN, S.G.

Syndrome of the sphenoid fissure. Zhur. nevr. i psikh. 54 no.8: 664-665 Ag '54. (MIRA 7:9)

(SPHENOID BONE, diseases,
synd. of sphenoid fissure, traum.)

ZOGRABYAN, Suren Gegamovich; ARBATSKAYA, Yu.D., redaktor; GLUKHOYEDOVA, G.A., tekhnicheskiy redaktor

[Diagnostic surgery in diseases of the brain and spinal cord] Diagnosticheskie operatsii pri zabolevaniiakh golovnogo i spinnogo mozga. Moskva, Gos.izd-vo med. lit-ry, 1955. 195 p. (MLRA 9:2)

(BRAIN--SURGERY) (SPINAL CORD--SURGERY)

ZOGRABYAN, S. G.

USSR/Medicine - Disturbances in motor functions FD-1775

Card 1/1 Pub 122-7/9

Author : Zograbyan, S. G., Docent

Title : Review of the book "Narusheniya dvigatel'nykh funktsiy pri sosudistykh porazheniyakh golovnogo mozga" (Disturbances in motor functions when vascular disorders of the brain are present) by N. K. Bogolepov. Published by Medgiz, Moscow, 1953, 400 pages

Periodical : Vest. AMN SSSR, 1, 58-60, Jan/Mar 1955

Abstract : Here is a book containing systematic discussion of symptomatology and pathophysiology of disturbances in motor functions taking place when vascular disease of the brain is present. The reviewer states that the value of this book lies in the fact that its author, N. K. Bogolepov, made a study of large number of works of Soviet authors and bases his conclusions on 4,500 clinical and 1,000 anatomical observations. This made it possible for N. K. Bogolepov to express a number of original theories on pathogenesis of motor disturbances and to formulate the regularity with which disturbances in motor functions occur. The book is of great theoretical and practical value and is useful as a handbook for neuropathologists, pathophysiologists, and specialists in other fields of medicine. The book is well illustrated; a long list of references.

Institution: --

Submitted : --

ZOGRABYAN, S.G.; SHNOL', S.E.

Studies on the distribution of veronal in the central nervous system using tagged atoms. Zhur.nevr. i psikh. 56 no.8:654-658 '56. (MLRA 9:11)

1. Kafedra neyrokhirurgii (zav. - prof. A.A.Arendt) i meditsinskoy radiologii (zav. - prof. V.K.Modestov) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

(BARBITURATES, metabolism,
barbital in CNS, radiocarbon labeled (Rus))
(CENTRAL NERVOUS SYSTEM, metabolism,
barbital, radiocarbon labeled (Rus))

Translation M-3,053,145

ZOGRABYAN, S.G.

ZOGRABYAN, S.G.

Diagnosis of hypotensive syndrome in cerebral trauma [with summary in French]. Zhur.nevr. i psikh. 57 no.5:605-609 '57. (MIRA 10:8)

1. Kafedra neyrokhirurgii (zav. prof. A.A.Arendt) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva
(BRAIN, wounds and injuries,
causing hypotensive synd. (Rus))
(CEREBROSPINAL FLUID,
hypotension, caused by brain inj. (Rus))

ZOGRABYAN, S. G.

List of expected participants, 8th International Cancer Congress, Moscow, 22-28 July 1962 includes:

ZOGRABYAN S. G.	(3239)	ЗОГРАБЯН С. Г. Институт усов. г. Ереван	Мед- цтвей.

SO: List of Participants, Ukel, Moscow, 1962

VARTAPETYAN, P.A.; MURADYAN, G.T.; TOROSYAN, S.A.

Precordial pains of extracardial origin. Sov. med. 28 no.7:104-106 Jl '64. (MIRA 18:8)

1. Klinika fakul'tetskoy terapii (zav. - prof. T.S.Mnatsakanov), klinika nevrologii i neyrokhirurgii (zav. - prof. S.G.Zograbyan) i klinika nervnykh bolezney (zav. - prof. G.I.Morzoyan) Yerevanskogo meditsinskogo instituta.

The Academy of Sciences of the USSR announced the names of the following candidates for corresponding member:

Department of Physiology:

GURFINKEL', Viktor Semenovich, Doctor of Medical Sciences,
DEMIKHOV, Vladimir Petrovich, Doctor of Biological Sciences,
ZOGRABYAN, Suren Gegamovich, Doctor of Medical Sciences, professor,
KOGAN, Aleksandr Borisovich, Doctor of Biological Sciences, professor,
KOROBKOV, Anatoliy Vital'yevich, Doctor of Medical Sciences, professor,
KOSTYUK, Platon Grigor'yevich, Corresponding Member of the Acad Sci of the Ukrainian SSR,
KRUSHINSKIY, Leonid Viktorovich, Doctor of Biological Sciences, professor,
LIBERMAN, Yefim Arsent'yevich, Doctor of Biological Sciences,
LICHKO, Andrey Yevgen'yevich, Doctor of Medical Sciences,
NEFEDOV, Yuriy Gerasimovich, Doctor of Medical Sciences, professor,

Izvestiya, 14 Jun 66, p 3, col 1

10

ZOGRABYAN, S.G.

Late results of brain tumors. Zhur. eksp. i klin. med. 3 no.1: 11-17'63. (MIRA 16:10)

1. Kafedra nerologii i neyrokhirurgii Yerevanskogo meditsinskogo instituta.
(BRAIN — WOUNDS AND INJURIES)

RAZDOL'SKIY, Ivan Yakovlevich, professor, zasluzhennyy deyatel' nauki; ZOGRABYAN, S.G., redaktor; SACHEVA, A.I., tekhnicheskiy redaktor.

[Brain tumors; clinical aspects and diagnosis] Opukholi golovnogo mozga; klinika i diagnostika opukholei golovnogo mozga. Moskva, Gos. izd-vo meditsinskoi lit-ry, 1954. 282 p. (MLRA 7:12)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Razdol'skiy).

(Brain--Tumors)

ZOGRABYAN, S. G. Doc Med Sci -- (diss) "Problems of the Pathogenesis and ~~Multilateral~~ Complex Therapy of the Cranial-Cerebral Trauma During the Acute Period (Experimental-Clinical Study)." Mos, 1957. 31 pp (with illustrations), 21 cm. (Min of Health USSR, Central Inst for the Advanced Training of Physicians), 200 copies (KL, 17-57, 99)

ZOGRABYAN, S.G.

ARENDT, A.A., prof., otvetstvennyy red.; OGNEV, B.V., prof.; ZOGRABYAN, S.G., dotsent; METAL'NIKOVA, N.N., doktor med.nauk.

[Problems of neurosurgery] Problemy neirokhirurgii. Pod red. A.A.Arendta i dr. Moskva, 1957. 154 p. (MIRA 11:1)

1. Moscow. TSentral'nyy institut usovershenstvovaniya vrachey.
2. Chlen-korrespondent AMN SSSR (for Ognev).
(NERVOUS SYSTEM--SURGERY)

ZOGRABYAN, S.G. (Moskva)

Comments on English neurology and neurosurgery. Zhur.nevr. i psikh. 58 no.10:1277-1280 '58 (MIRA 11:11)

(NEUROLOGY,
in Gt.Brit. (Rus))
(NEUROSURGERY,
same (Rus))

NOVITSKIY, P.V.; NOVOPASHENNYY, G.N.; ZOGRAF, I.A.; OSADCHIY, Ye.P.

Amplifiers used for measurements and equipped with semiconductor triodes. Poluprov.prib. i ikh prim. no.3:196-208 '58. (MIRA 12:4)

(Transistor amplifiers)

ACCESSION NR: AP4033597 S/0119/64/000/004/0008/0008

AUTHOR: Zograf, I. A. (Engineer); Knorring, V. G. (Engineer); Kondrashkova, G. A. (Engineer); Maly*gina, N. V. (Engineer)

TITLE: Method for measuring infralow-frequency currents and voltages

SOURCE: Priborostroyeniye, no. 4, 1964, 8

TOPIC TAGS: infralow frequency, infralow frequency current, infralow frequency voltage, infralow frequency measurement, fraction cps measurement

ABSTRACT: The existing methods of infralow-frequency measurement are based on high-inertia instruments with a resulting slow reaction. A new principle of measurement is suggested in which a differential frequency converter develops two frequencies f_1 and f_2 in two oscillators (block diagram supplied). Both frequencies are fed into a balanced modulator with a low-pass filter; the latter yields the difference frequency $f_1 - f_2$. This frequency is zero at no measurand;

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ACCESSION NR: AP4033597

with a measurand applied, this frequency is independent of the polarity of the current and is proportional to its instantaneous value. The number of periods of the difference frequency per one period of the measurand is directly proportional to its mean value and inversely proportional to its frequency. The following advantages of the new method are claimed: (1) Short time of measurement equal to one period of the measurand; (2) Digital reading; (3) Invariable reading during one period; (4) Higher accuracy. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00 ATD PRESS: 3058 ENCL: 00

SUB CODE: EC NO REF SOV: 005 OTHER: 000

Card 2/2

ZOGRAF, I. A.; KNORRING, V. G.; KONDRASHKOVA, G. A.; MALYGINA, N. V.

Method for measuring currents and voltages of subsonic frequencies. Priborostroenie no. 4:8 Ap '64. (MIRA 17:5)

GAVRILOV, V.Yu.; ZOGRAF, Yu.N.

Characteristics of the biochemical code. Usp.fiz.nauk 77 no.4:597-620 Ag '62. (MIRA 15:8)
(Biochemistry)

ZOGRAFKI, Str.; NIKHTIANOV, Khr.; DASHEV, G.

Successful surgery of a case of pheochromocytoma. Khirurgiia (Sofiia) 16 no.10:959-961 '63.

1. Iz katedrite po bolnichna khirurgiia i po endokrinologiia i bolesti na obmianata pri ISUL, Sofiia.

ZOGRAFOV, D.

Prognostic importance of the changes in the peripheral blood during an acute radiation sickness and in case of an acute hemorrhage. Doklady BAN 17 no.3:303-306 '64.

1. Predstavleno akademikom D.Orakhovata.

ZOGRAFOV, D.

On changes in the peripheral blood and their diagnostic significance in occupational radiation injuries. II. Morphological changes. Suvrem med., Sofia no.10:12-20 '60.

1. Katedrata po rentgenologiia i radiologiia pri ISUL (Rukov. na katedrata prof. G.Tenchov.
(RADIATION INJURY blood)
(OCCUPATIONAL DISEASES)

TENCHOV, G.; SAKHATCHIEV, A.; ZOGRAFOV, D.; MITROV, G.; KANETA, Ia.

Occupational ionizing radiation injuries in medical personnel in Bulgaria. Suvrem. med., Sofia 10 no.1:37-44 1959.

1. Iz Katedrata po pentgenologiia i radiologiia pri LSUl (Zav. katedrata: prof. G. Tenchov).

(RADIATIONS, inj. eff.
in med. personnel (Bul))
(OCCUPATIONAL DISEASES,
radiation inj. in med. personnel (Bul))

BULGARIA

G. KHADZHIDEKOV, G. MITROV and D. G. ZOGRAFOV [Affiliation not given.]

"Medical Examination of Persons Occupationally Exposed to Ionizing Radiation."

Sofia, Rentgenologiya i Radiologiya, Vol 2, No 2, Apr-Jun 63; pp 9-14.

Abstract [English summary modified]: Data on 154 persons (139 medical radiology personnel, 15 mining) exposed to radiation for 2 to 30 years and seen 1958-1962: of 50 in which some form and degree of radiation disease was diagnosed, 39 were considered severe enough to require change of working assignment. The 39 included 6 with radiation dermatitis as only symptom and 4 with mixed skin and systemic signs; 3 with hematologic changes only. Comprehensive data. One Bulgarian unpublished, 1 Hungarian, 9 Western and 11 Soviet references.

1/1

Radiology

BULGARIA

ZOGRAFOV, D., BAEV, I., and KESLEV, D., Institute of Radiology and Radiation Hygiene (Institut po radiologiya i radiatsionna khigiena) (Docent I. Nikolov, Director)

"Intraperitoneal Administration of a Bone Marrow Suspension in Acute Radiation Sickness"

Sofia, Rentgenologiya i Radiologiya, Vol 5, No 1, 1966, pp 32-40

Abstract: On irradiation of rats with X-rays in a dose $LD_{97.5}$, intraperitoneal administration of homologous bone marrow was less effective (35% survival) than intravenous injection (65% survival). Study of the peripheral blood, bone marrow, and inclusion of Fe59 in erythrocytes indicated that there was no significant difference in the regeneration of hemopoiesis between animals treated by the two methods. On transplantation by intraperitoneal injection of rat bone marrow to irradiated mice, granulocytes containing alkaline phosphatase (i.e., rat granulocytes) were not found in the bone marrow of the mice. This indicated that donor elements were not implanted in the bone marrow of recipient animals after intraperitoneal introduction. The rapid regeneration after intraperitoneal administration of bone marrow is explained by humoral stimulation, while the high therapeutic effect on intravenous administration is ascribed to development of donor cells in the bone marrow of recipient animals. The

ZOGRAFOV, D. G.

Peripheral blood following single irradiation in the condition of acute blood loss. Acta med. acad. sci. Hung. 18 no.1:27-33 '62.

1. Iz radiobiologicheskogo otdeleniya nauchno-issledovatel'skogo onkologicheskogo instituta (Dir.: prof. V. Mikhailov) Sofiia, Bolgariia.

(RADIATION INJURY blood)
(BLOOD CELLS radiation eff)
(HEMORRHAGE exper)

41814
G/020/62/008/004/001/001
I026/I246

27.2400. ZOGRAFOV, D.G.

AUTHORS: Zographov, D.G. and Baov, I.A.

TITLE: The influence of the protection by N-Phenylamidin of Thiophene-2-carbonic acid on myeloid changes in the case of acute radiation sickness

PERIODICAL: Acta biologica et medica germanica, v.8, no.4, 1962, 337-343

TEXT: White male rats were irradiated with 650 r, 5 min after administration of 5 mg/100g of a 1% solution of N-phenylamidine of thiophene-2-carbonic acid (PTC) in acetic acid. Controls were rats that were either only irradiated, or rats that received only PTC. 1,3,5,10,15, and 30 days after irradiation the rats were anaesthetized, about 1000 cells of bone marrow were removed from their tibias and examined in smear preparations. The mitotic index in PTC-protected animals was significantly higher than in irradiated controls. There were more immature granulocytes and erythroblasts in the protected rats one day after irradiation but there was no difference in lymphocytes or megakaryocytes. These findings indicate that radiation damage is smaller, and that there is a quicker recovery of all types of cells except lymphocytes in rats protected by PTC.

X

Card 1/2

The influence of...

G/020/62/008/004/001/001
I026/1246

ASSOCIATION: Der Radiobiologischer Abteilung des Onkologischen Forschungsinstituts, Sofia/Bulgarien (Direktor: Prof. W. Michailow)
(Department of Radiobiology of the Oncological Research Institute, Sofia, Bulgaria [directed by Prof. W. Michailow])

SUBMITTED: July 11, 1961

Card 2/2

ZOGRAFOV, D.; IVANOV, E.

Diagnosis of multiple myeloma and report of three cases of gamma-plasmacytoma. Suvrem. med., Sofia 8 no.11:126-134 1957.

1. Iz Nauchnoizsledovatelskiia onkologichen institut--Sofiia (Direktor: Prof. Ves. Mikhailov).
(MYELOMA, PLASMA CELL, case reports,
gamme-plasmacytoma (Bul))

ZOGRAFOV, D.

SURNAME, Given Names

Country: Bulgaria

Academic Degrees: not given

Affiliation: not given

Source: Sofia, Khigiena, Vol IV, No 5, Sep/Oct 1961, pp 31-43

Data: "Protection against Radiation through Amidin Compounds."

Authors:

NIKOLOV, Iv.
BAEV, Il.
ZOGRAFOV, D.
TODOROV, Sv.
ROBEV, St.

SFO 98143

MIKHAILOV, V., Prof.; ZOGRAFOV, D.

Diagnostic value of carbohydrate metabolism disorder in carcinoma of the gastrointestinal tract. Suvrem. med., Sofia 9 no.2:77-61 Feb 58.

1. Iz Nauchnoizsledovatelskiia onkologichen institut (Direktor: prof. V. Mikhailov).

(GASTROINTESTINAL SYSTEM, neoplasms
diag. value of carbohydrate metab. disord. (Bul))
(CARBOHYDRATES, metab.
disord., diag. value in gastrointestinal system cancer (Bul))

TENCHOV, G.; SAKHATCHIEV, Z.; ZOGRAFOV, D.

Some changes in peripheral blood during total-body irradiation of white mice with a lethal dose of x-ray. Suvrem. med., Sofia 9 no.3:52-59 1958.

1. Iz Rentgenoviia institut pri USUL--Sofiia (Direktor: prof. G. Tenchov)
(ROENTGEN RAYS, effects,
total body, on peripheral blood in mice (Bul))
(BLOOD, eff. of radiations on
x-ray total body irradiation of mice (Bul))

ZOGRAFOV, D.

Hematological changes in medullary metastases of malignant tumors. Suvrem med., Sofia no.11:33-40 '60.

1. From the Scientific Research Oncologic Institute (Director Prof. V.Mikhailov)
(BONE MARROW neopl)
(BLOOD CELLS)

ZOGRAFOV, D.; BAEV, Il.

Peripheral blood changes in acute radiation sickness in white rats protected with N-phenylamidine and thiophene-2-carboxylic acid. Khirurgiia(Sofia) 14 no.12:1109-1112 '61.

1. Institut za spetsializatsiia i usuvurshenstvuvane na lekarite - Sofiia, katedra po rentgenologiia i radiologiia. Zav. katedrata: prof. G. Tenchov [deceased]

(RADIATION PROTECTION exper)
(THIOPHENES pharmacol)
(AMIDINES pharmacol)
(BLOOD CELLS radiation eff)

MIKHAILOV, Ves., prof.; ZOGRAFOV, D.

Carbohydrate regulation disorders in carcinoma of the gastrointestinal tract. Izv. inst. klin. obsht. med. 4:365-374 '60.

(GASTROINTESTINAL SYSTEM neopl) (BLOOD SUGAR)

ZOGRAFOV, D.

The prognostic significance of changes in the peripheral blood in acute radiation sickness under conditions of acute hemorrhage. Dokl. Bolg. akad. nauk 17 no.1:303-306 '64

1. Predstavleno akademikom D.Orakhovats.

ZOGRAFOV, D.G.

Diagnostic significance of peripheral blood changes in occupational radiation injuries. Med.rad. no.10:27-32 '61. (MIRA 14:10)

1. Iz kafedry rentgenologii i radiologii Instituta spetsializatsii i usovershenstvovaniya vrachey (Sofiya, Bolgariya).
(RADIATION SICKNESS) (BLOOD)

ZOGRAFOV, D.G.

Hematological changes during radiotherapy of breast cancer. Suvrem med., Sofia no.12:55-62 '60.

1. Iz Nauchno-izsledovatelskiia onkologichen institut (Direktor prof Ves.Mikhailov)
(BREAST NEOPLASMS radiother)
(BLOOD CELLS radiother eff)

38395
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27.2400

AUTHOR: Zografov, D.G.

TITLE: Changes in peripheral blood after a single exposure to radiation combined with acute blood loss

SOURCE: Academia scientiarum Hungaricae. Acta medica, v. 18, no. 1, 1962, Budapest, 27 - 33

TEXT: The present study was undertaken (a) since acute hemorrhage is likely to be one of the most frequent complications occurring simultaneously with radiation injury and besides (b) to decide whether patients, who suffered acute hemorrhages can safely be given radiotherapy, and (c) because the relevant literature data are of contradictory character. 80 male guinea pigs were divided into 4 groups: 1) 10 were bled from the jugular vein, causing a loss of 25 % of the total blood; 2) 30 were exposed to X-rays (300 r) at a distance of 50 cm; 3) 20 were irradiated 30 min. after the bleeding and 4) 20 were irradiated on the 3rd day after the bleeding, i.e. when the stimulating effect of the blood loss upon hematopoiesis was at its peak The red cell, reticulocyte, neutrophile, lymphocyte and platelet

Card 1/3

counts were checked daily up to the 5th day and then every second day until the 30th day. Whereas in the 1st group the red cell count is gradually restored to the original level, it shows a steep fall in animals irradiated after the hemorrhage, a fall which is less marked in the 4th group. The regeneration is slowest in the 3rd group. The reticulocytes disappeared completely in the 2nd group (radiation only), but persisted, even in the aplastic period, in the 3rd and 4th groups (hemorrhage and radiation). Preliminary blood loss exerts therefore a protective effect against radiation as in the hyperplastic bone marrow a greater number of erythroblasts appears to survive. The preliminary stimulation of hematopoiesis seems to counteract the usual suppression of blood cell proliferation by radiation. This compensation is, however, not complete, as shown by the further fall in the red cell count after radiation. The fact that the protective effect is more marked in the 4th group supports the view that this effect is based upon the stimulation of the hematopoietic apparatus where stimulation is known to reach its peak on the third day. The restoration of reticulocytes, neutrophiles and platelets is more rapid after combined blood loss and irradiation than after irradiation only. This also applies to later

Changes in peripheral blood after a ... H/503/62/018/001/001/001
D296/D307

periods when the primary stimulation caused by the hemorrhage must have subsided. Hence the existence is postulated of an indirect stimulating mechanism consisting, for example, of the formation and accumulation of hematopoietic substances in the blood following acute hemorrhage. There are 5 figures.

ASSOCIATION: Radiobiologicheskoye otdeleniye nauchno-issledovatel'skogo onkologicheskogo instituta (Professor V. Mikhaylov, Direktor) (Department of Radiobiology, Oncological Scientific Research Institute (Director, Professor V. Mikhaylov) Sofia, Bulgaria)

SUBMITTED: March 1, 1961

Card 3/3

ZOGRAFOV, D.G.

Therapeutic use of hemopoietic tissues. Suvr. med. 16 no. 4: 224-232 '65.

DIMITROV, D.; GENOV, Iv.; IORDANOV, I.; DAVIDOV, S.; KOLEV, L., inzh.; ZOGRAFOV, Iv., inzh.

Preliminary data on experimental studies on extracorporeal circulation with our apparatus. Khirurgiia 15 no.9/10:895-899 '62.

1. Iz Katedrata po propedevtika na khirurgichnite zaboliavaniia pri VMI [Visah meditsinski institut] - Sofiia.
(HEART MECHANICAL)